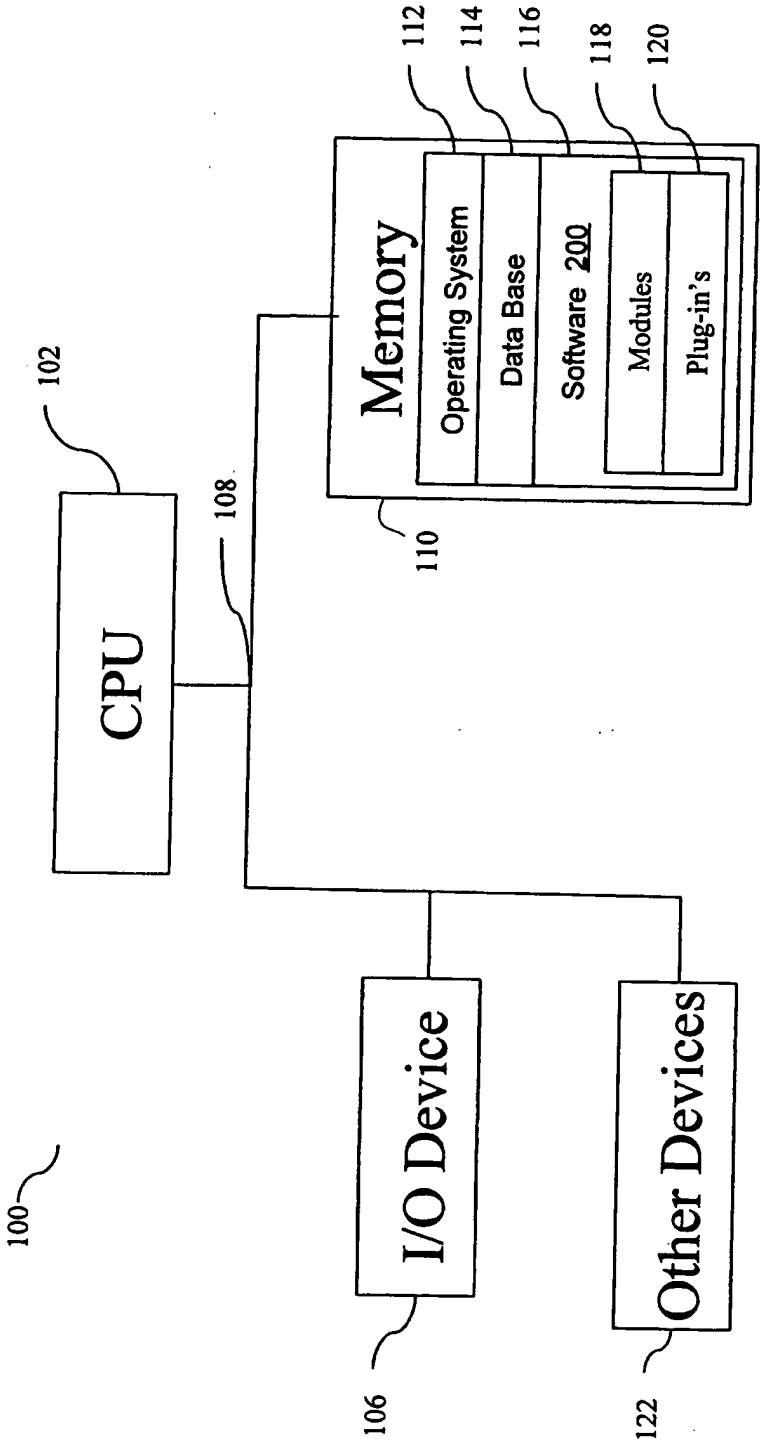
100
102
CPU
108
Memory
110
112
Operating System
114
Data Base
116
Software 200
118
Modules
120
Plug-in's
I/O Device
106
Other Devices
122

FIG. 1

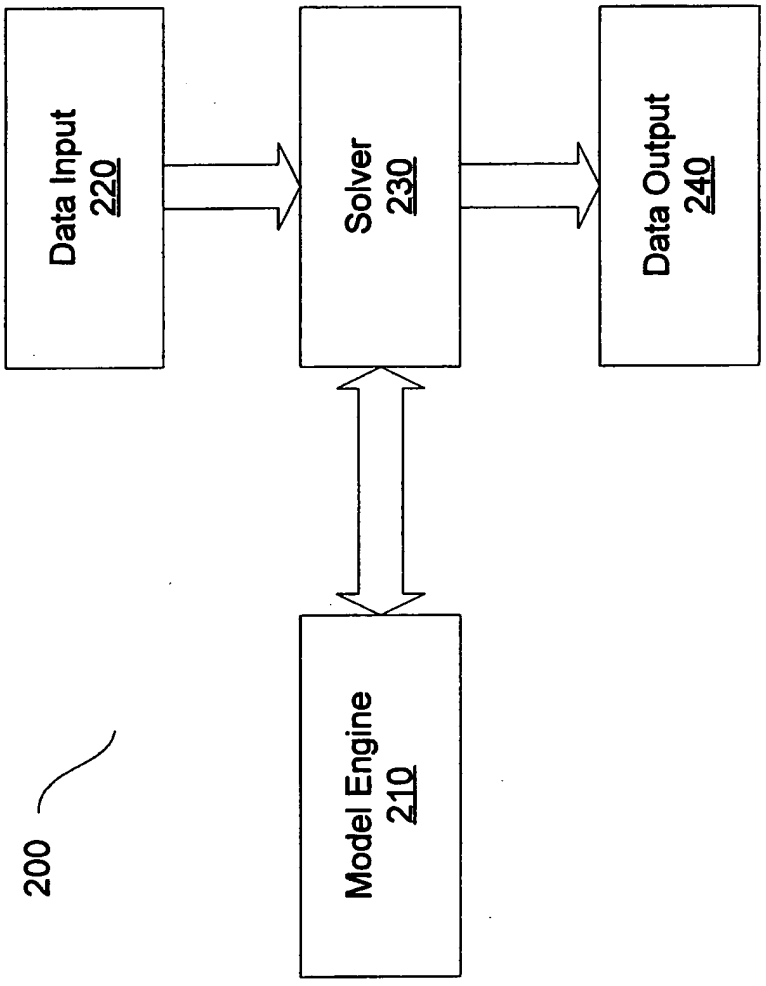
Data Input
220
Solver
230
Data Output
240
Model Engine
210
200

FIG. 2

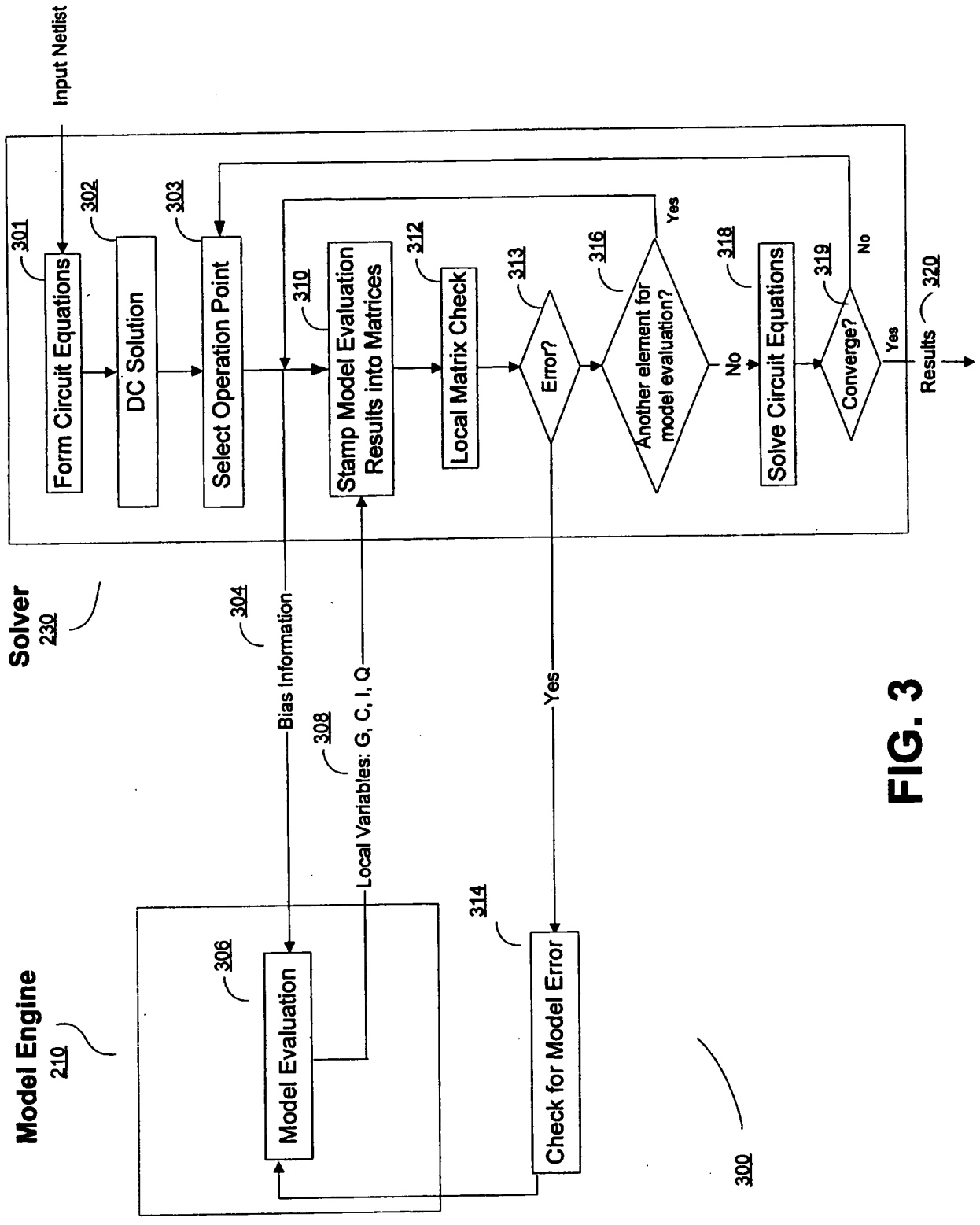
Input Netlist
Solver
230
301
Form Circuit Equations
302
DC Solution
303
Select Operation Point
310
Stamp Model Evaluation Results into Matrices
312
Local Matrix Check
313
Error?
316
Another element for model evaluation?
Yes
No
318
Solve Circuit Equations
319
Converge?
No
Yes
320
Results
304
Bias Information
308
Local Variables: G, C, I, Q
Yes
Model Engine
210
306
Model Evaluation
314
Check for Model Error
300

FIG. 3

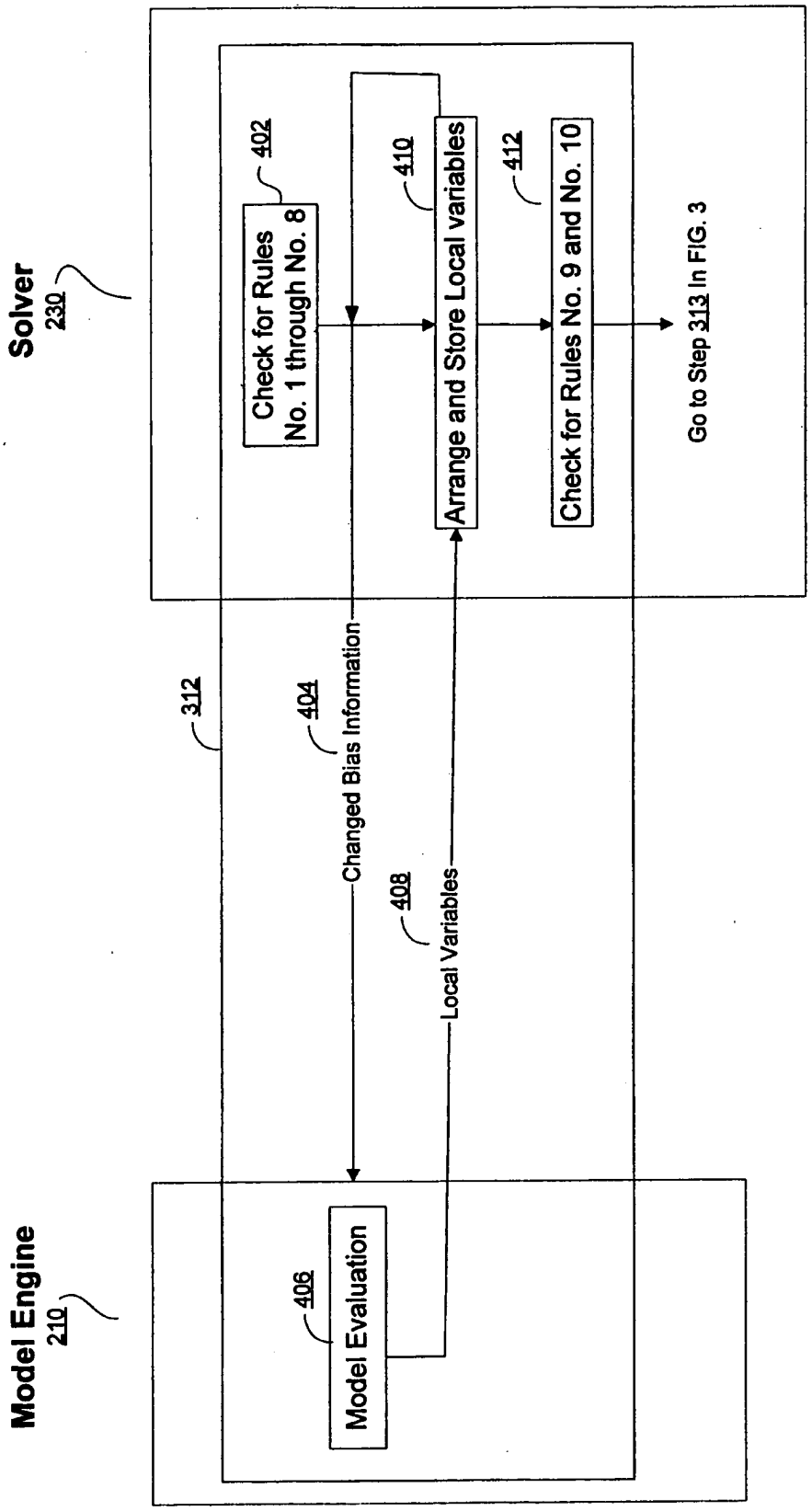
Solver
230
Check for Rules No. 1 through No. 8
402
Arrange and Store Local variables
410
Check for Rules No. 9 and No. 10
412
Go to Step 313 In FIG. 3
312
404
Changed Bias Information
408
Local Variables
Model Engine
210
406
Model Evaluation

FIG. 4

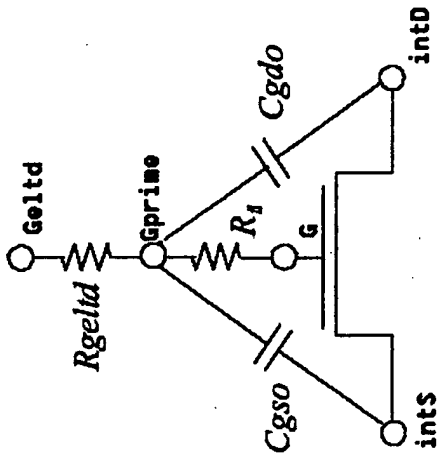

FIG. 5